EXHIBIT 13

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1
               UNITED STATES DISTRICT COURT
              EASTERN DISTRICT OF WASHINGTON
 2
                 CASE NO. 15-cv-00201-SMJ
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 4
     CITY OF SPOKANE, a municipal:
     corporation, located in the
 5
     County of Spokane, State of
     Washington,
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 7
                   Plaintiff,
 8
              vs.
 9
     MONSANTO CORPORATION,
     SOLUTIA, INC., and PHARMACIA:
     CORPORATION, and DOEs 1
10
     through 100,
11
                   Defendants.
12
13
14
              Deposition of RICHARD DEGRANDCHAMP,
     Ph.D. taken in the above-entitled matter before
15
16
     Suzanne J. Stotz, a Certified Realtime
17
     Reporter, Registered Professional Reporter, and
18
     Notary Public of the State of Colorado, taken
19
     at the offices of Shook, Hardy & Bacon, LLP,
     1660 17th Street, Suite 450, Denver, Colorado
20
     80202, on November 19, 2019, commencing at 9:17
21
22
     a.m.
23
24
25
     Job No. 171877
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- 1 RICHARD DEGRANDCHAMP, Ph.D.
- 2 A. Ultimately, human exposures, that's
- 3 correct.
- 4 Q. All right. Have you made any
- 5 attempt to correlate a decline -- a rate of
- 6 decline of PCBs to the Spokane River that will
- 7 result in any particular percentage of decline
- 8 in an individual's blood level?
- 9 A. In an individual, no.
- 10 Q. How about on a population basis?
- 11 A. I haven't done that yet.
- 12 Q. Have you made any estimate of any
- individual's body burden of PCBs from the
- 14 Spokane River -- let me ask that a different
- 15 way.
- 16 Have you made any effort to estimate
- 17 the proportion of PCBs in an individual who
- 18 consumes fish from the river attributable to
- 19 PCBs from those fish?
- 20 A. I have not included that in my
- 21 report, no.
- Q. Have you been asked to comment as an
- 23 expert witness in this case on any statement or
- 24 publication issued by the American Council for
- 25 Science and Health?

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RICHARD DeGRANDCHAMP, Ph.D.

- 2 much people are exposed to. I care about their
- 3 final body burden at any one point.
- 4 So all I'm saying is -- you read
- 5 that correctly. If that's what you want --
- 6 Q. Yeah, that's --
- 7 A. If that's -- yeah, you read that
- 8 correctly.
- 9 Q. And this is the depiction that the
- 10 Agency for Toxic Substances and Disease
- 11 Registry put forth in the document regarding
- 12 health risks associated with the consumption of
- 13 fish in Long Lake, correct?
- 14 A. Correct.
- Q. Okay. Doctor, you are -- you have
- seen no serum PCB levels for any population
- 17 within the City of Spokane, correct?
- 18 A. That's correct.
- 19 Q. You have not seen any serum PCB
- 20 levels for population of fish consumers from
- 21 the Spokane River, correct?
- 22 A. That's correct.
- Q. Incidentally, you don't know the
- 24 proportion of individuals who reside in the
- 25 City of Spokane whose daily intake of PCBs

Page 242 1 RICHARD DeGRANDCHAMP, Ph.D. 2 0. I want to ask you about your book 3, 3 page 51. Α. 4 151? 5 Q. No. Page 51. Α. 51. 6 If you can find page 151, we are 7 Q. talking about a different book 3. 8 9 It's just page 51. MR. LAND: 10 think he's just directing you to page 51. BY MR. MILLER: 11 12 Yeah. 0. Page 51. 13 Α. Okay. This page? 14 Q. Yeah. Exhibit 18 on page 51 has exposure assumptions. Do you see those? 15 16 Α. Yes, I see that. 17 Okay. And it uses -- well, first of Ο. 18 all, what does this table represent? 19 Α. This is a table that was presented in, I think; the 2007 document. So I wanted to 20 be consistent with what I was reviewing from 21 2.2 the state. So there are health -- I believe it 23 was from the health consultation 2007. 24 Q. Okay. And how are averaging times used in a non-cancer and cancer human health 25

- 1 RICHARD DeGRANDCHAMP, Ph.D.
- 2 risk assessment?
- A. Well, the averaging time goes on the
- 4 denominator. And the averaging time is, for
- 5 non-carcinogens, the time that you live in a
- 6 certain residence, which would be 30 years.
- 7 And the averaging time for a cancer would be
- 8 the number of days in 70 years.
- 9 Q. Okay. You have an ingestion rate.
- 10 What is the ingestion rate? And -- generally.
- 11 Not the specific --
- 12 A. Yeah. Again, these are not my
- derived values, but this is 42 grams per day.
- 14 Q. Okay. And that is what? What does
- 15 that represent?
- 16 A. An intake rate, as -- I'm just
- 17 trying to compare this to the more recent value
- 18 that the state uses.
- 19 So the screening levels that the
- 20 state uses were 59.7 and 175. Okay.
- Q. Okay. So what is the ingestion
- 22 rate? What is it intended to capture or
- 23 express?
- A. The average daily intake.
- 25 Q. From -- by whom? The average

Page 244 1 RICHARD DeGRANDCHAMP, Ph.D. individual? 2. Α. Yeah, the average recreational 3 angler. 4 5 Q. Okay. If you were to line up all the recreational anglers in a row, would this 6 be the guy or the woman exactly in the middle? 7 Α. That would be the median. 8 9 Ο. Okay. That would be the 50th. 10 Α. 11 Ο. Percentile. 12 50 percent would be below the Α. 13 median; 50 percent would be above. If it's 14 lognormally distributed data, the median is usually to the left; it's lower than the mean. 15 16 So the mean and the median concentrations are 17 different. 18 Ο. Okay. So this is the average intake 19 rate, not the 50th percentile of intake? 20 It depends on the underlying probability density function. If you are 21 dealing with a Gaussian distribution -- and I 22 23 don't know what the underlying distribution is 24 for anglers -- but if it's a bell-shaped curve,

it's a normal distribution, the mean and the

25

- 2 median would be identical.
- 3 Q. Have you ever seen a distribution of

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- 4 fish consumption that looks like a bell-shaped
- 5 curve?

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- 6 A. I don't typically look at the
- 7 distributions.
- 8 Q. Okay. Have you ever -- well, have
- 9 you ever plotted a distribution of fish
- 10 consumption?
- 11 A. Yes.
- 12 Q. Okay. And most of the people who
- 13 live in a community don't fish, and so the --
- 14 most of the people would have zeros, the amount
- of daily intake from fish from that community.
- 16 A. This number doesn't represent the
- 17 average of everyone in the community of people
- 18 that don't fish and people that fish.
- 19 Q. No, I know. I am just talking about
- 20 in general, right? I mean --
- 21 A. People that don't eat fish wouldn't
- 22 be in this distribution.
- Q. Even people that who do eat fish --
- the distribution usually is sloped down, isn't
- 25 it?

- 1 RICHARD DEGRANDCHAMP, Ph.D.
- 2 A. Sloped -- a lognormally distributed
- 3 curve is skewed to the right. So you have a
- 4 lot of people that eat little fish -- and these
- 5 are anglers; these aren't people that are --
- 6 this is not the Russian community.
- 7 Q. I got it.
- 8 A. Okay. So you take your data and you
- 9 graph it. And if it's normal distribution, if
- 10 there's equal number of people that eat a lot
- of fish and people that don't eat a lot of
- 12 fish, it would be a bell-shaped curve.
- Q. So tell me, with respect to this
- 14 community of anglers in the Spokane River, what
- 15 does this distribution look like?
- 16 A. I don't -- that's what I'm saying.
- 17 I have not plotted the data.
- 18 Q. Have you even seen the data?
- 19 A. I have seen the data, but I didn't
- 20 plot it.
- 21 Q. Where did you see the data?
- 22 A. In one of the documents that I
- 23 briefly reviewed.
- I didn't recreate the wheel, if
- 25 that's what you're asking. I didn't start with

Case 2:15-cv-00201-SMJ ECF No. 382-4 filed 01/28/20 PageID.16814 Page 10 of 28 Page 247 1 RICHARD DeGRANDCHAMP, Ph.D. 2 the raw data to calculate what the average fish intake -- so I haven't plotted the data. 3 4 have not confirmed this as the average value. 5 And this -- it's changed now, so it's not even the same 42. 6 So what percentage of Spokane River 7 Q. anglers consume fish at 42 grams per day? 8 I don't know. This is an average. 9

- 10 Q. No, I know. I'm just --
- 11 A. But I don't know if that's an
- 12 arithmetic average or a geometric average.
- 13 If --
- Q. Okay. Do you know what the 10 --
- 15 the consumption rate is at the lowest 10
- 16 percent aisle of consumption is?
- 17 A. No, I don't.
- 18 Q. How about the lowest 20 percent of
- 19 consumption? What's that rate?
- 20 A. I don't know.
- Q. What about the 30th percentile of
- 22 consumption?
- 23 A. Same answer.
- Q. How about the 50th percentile?
- 25 A. Same answer.

Page 248 1 RICHARD DeGRANDCHAMP, Ph.D. 2 0. How about the 90th percentile? 3 Α. Same answer. 4 Ο. 95th percentile? 5 Α. Same answer. 0. Do you know how many consumers of 6 Spokane River fish consume over the advisories 7 that we've talked about earlier today? 8 Do I have a numerical estimate of 9 the people that -- I wouldn't even know where 10 to get that information. 11 12 Q. Okay. 13 Α. If they are certainly not adhering 14 to the advisories, they're not going to be in the survey. That information would not even be 15 available. 16 17 Ο. Do you --MR. MILLER: Move to strike after "I 18 19 don't have a numeric estimate of the people." 20 21 BY MR. MILLER: 2.2 Q. Do you have an estimate of the 23 percentage of Spokane River anglers that 24 consume fish over the advisory levels that we talked about earlier today? 25

Page 249 1 RICHARD DeGRANDCHAMP, Ph.D. 2 Α. No. Would you even know how to generate 3 0. such an estimate? 4 5 Α. Repeat your question again. Ο. Would you even know how to generate 6 such an estimate? 7 Such an estimate couldn't even be 8 If people are eating more fish than 9 generated. the -- or if they're exceeding the recommended 10 amount, number one, they're unlikely to admit 11 12 that in a survey; number two, how would you 13 identify those folks who know generally, based 14 on my professional experience at these sites -sites similar to this, they don't know the 15 16 recommended amount for each species. they catch a trout, for example, they don't run 17 18 back to their truck and see how many fish they 19 can eat. 20 This is a general rule of thumb as it's applied in reality. So you were talking 21 22 about hypothetical just a second ago. People 23 have a general idea of what type of fish pose 24 the highest risk, the bottom feeders. 25 other than that, you know, these are general

- 2 guidelines.

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3 Q. All right. So you would not know if

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- 4 it's possible to generate an estimate of the
- 5 number of people or the proportion of anglers
- 6 who consume over an advisory limit, correct?
- 7 A. I wouldn't even know how to identify
- 8 those people.
- 9 Q. Okay. You have said that the ATSDR
- 10 and the Washington Department of Health fish
- 11 advisories throughout the years have been
- 12 consistent and scientifically tenable, relying
- on the best available measurements of fish
- 14 tissue, PCB data, as well as toxicological and
- 15 exposure information available at the time,
- 16 correct?
- 17 A. That's what I stated.
- 18 Q. Okay. Can you tell me how the 42
- 19 grams per day ingestion rate used by ATSDR and
- 20 WDOH was derived?
- 21 A. No. Have I looked at the underlying
- 22 document? Yes. I haven't done an independent
- 23 analysis of how that average concentration was
- 24 calculated. If that's your question, that's my
- answer.

- 1 RICHARD DEGRANDCHAMP, Ph.D.
- O. Well, I wanted to know because I am
- 3 confused where the 42 grams per day comes from.
- A. Well, what you just read -- the
- 5 citation you just read from my report and you
- 6 asked me if it was correct.
- 7 O. Yeah.
- 8 A. There is a key phrase in there, and
- 9 it says based on the best available information
- 10 at the time.
- 11 Q. Yeah.
- 12 A. The ingestion rates have changed
- over time, the assumptions that they're using
- 14 to calculate risk and derive fish advisory
- 15 levels, those have changed.
- 16 And I was just looking for the most
- 17 recent value here in Dave McBride's document.
- 18 So if you want me to find it, I will. But they
- 19 have changed over time.
- Q. What factors go in to why ingestion
- 21 rates change over time for a population?
- 22 A. What factors?
- 23 O. Yeah.
- A. You take surveys.
- Q. Yeah, but what are the factors that

- 1 RICHARD DEGRANDCHAMP, Ph.D.
- 2 affect a population's change in ingestion
- 3 rates?
- 4 A. What are the biological factors?
- 5 You say factors. You take a survey. You call
- 6 up 8,000 people: How much fish do you eat? Or
- 7 you show them a portion size. Is this the
- 8 amount that you eat in a meal?
- 9 I mean, these are not -- you know,
- 10 with all due respect to the folks that carried
- 11 these out, this is not brain surgery. You are
- 12 trying to get a gauge on how much fish people
- 13 eat.
- 14 Q. I understand.
- 15 A. Okay.
- 16 Q. I'm just asking, what are the
- 17 factors that you believe affect a population's
- 18 ingestion rate of locally caught fish over
- 19 time?
- 20 A. They're based on, typically,
- 21 surveys.
- Q. I understand what they're based on.
- 23 But what I'm getting at is, are there factors
- 24 such as availability of other nutritional
- 25 options? Is it that people have other

- 1 RICHARD DEGRANDCHAMP, Ph.D.
- 2 activities that they prefer to engage in than
- 3 angling?
- I mean, there are factors like that
- 5 that would account for why ingestion rates over
- 6 time change.
- 7 A. I don't look for the fact -- I have
- 8 never done an analysis of the factor that lead
- 9 to the change. I want to know what the fish
- 10 ingestion rate is. Unless I am conducting a
- 11 sociological analysis of why these -- you are
- 12 asking me for why these change.
- 13 Q. And you have not studied it?
- 14 A. I have not studied it.
- 15 Q. That's fine. Okay. So you wouldn't
- 16 be able to tell me in this particular community
- 17 why the ingestion rate has changed from 42
- 18 grams per day to whatever it is that ATSDR or
- 19 the Department of Health now uses as the
- 20 ingestion rate?
- 21 A. I can tell you what my experience
- 22 has been at other sites. I can't tell you what
- 23 the underlying factors are here. But I know at
- other sites, when the plant closes down and 600
- 25 people are out of work and they've got to feed

- 1 RICHARD DeGRANDCHAMP, Ph.D.
- 2 their families, they start doing things in
- 3 their community to supplement their diets.
- 4 So that is a socioeconomic factor
- 5 that has driven people to -- to go from maybe
- 6 42 grams a day up to, you know, five fish meals
- 7 a week, because they don't have a job.
- 8 Q. Right. Now, in this population, the
- 9 ingestion rate has fallen from 42 grams per day
- 10 to something lower, correct?
- 11 A. Well, if you'll give me a second, I
- 12 can find that information. I haven't followed
- 13 the ingestion -- my document was primarily
- 14 focused on the veracity of the health
- 15 consultations. I did not do an independent
- 16 analysis of the changing fish ingestion rates.
- 17 Q. Okay. If you haven't done the
- 18 analysis, fine.
- 19 A. Well, I don't know if that's --
- 20 Q. Okay.
- 21 A. You asked me for the socioeconomic
- 22 factors that are driving that.
- Q. And if you don't know, that's fine.
- 24 A. Yeah, I don't know --
- 25 O. Okay.

Page 255 1 RICHARD DeGRANDCHAMP, Ph.D. 2 Α. -- here. That's all you have to do. 3 0. 4 Α. Okay. 5 Q. All right? You don't have to quarrel with me about the validity of the 6 proposition in the first place. 7 Can you find the ingestion rate that 8 the Department of Health now uses? 9 As of 2013 -- well, let me see what 10 Α. 11 McBride states. He's got the screening levels, 12 which we've already talked about. Right? 13 you've got those. And that was 59.7 and 175 14 for the average and the high-end subsistence. 15 The meal size here are -- he's got 16 at .227 kilograms, so I would have to do a conversion there. So let's see if he gives us 17 18 a number. I don't know what the current level is, and I don't think he has stated it in his 19 20 report. So the answer is I don't know the 21 answer to that question. I don't know what the 22 current fish consumption rate is post-2013. 23 Now, on page -- well, in McBride's 24 document, the DOH document, he has a page --25 and this is not -- this doesn't have a page

- 1 RICHARD DEGRANDCHAMP, Ph.D.
- 2 number, so I am just showing you the page. And
- 3 the page is titled, "Why the change." And this
- 4 discusses the change in fish consumption rates.
- 5 So if you want to take a look at
- 6 this, this is what I'd say. So that's the
- 7 change. And he's comparing it to Oregon.
- 8 Q. Those aren't actual intake rates,
- 9 are they?
- 10 A. These are -- what do you mean? This
- is used in Washington, used in Oregon.
- 12 Q. Wait. So we're trying to answer the
- 13 question what is the current ingestion rate
- 14 that is used by DOH in its risk assessments.
- 15 It has moved from 42 to something else. We're
- 16 trying to establish what that something else
- 17 is.
- 18 A. I am trying to tell you that I gave
- 19 you the fish advisories based on a download
- 20 from their site, the 2019 fish advisories,
- 21 which they have not produced a supporting
- 22 document yet. I don't know what those fish
- 23 consumption rates are because they have not
- 24 produced the documents to support those new
- 25 fish advisories.

Page 257 1 RICHARD DeGRANDCHAMP, Ph.D. 2 0. But it's your understanding Okay. that it's something less than 42 grams per day? 3 Α. I don't -- I don't have an answer. 4 5 Q. Well, look at Exhibit 3. Α. Okay. This is 2013. 6 7 Q. Right. Do you have page 72? Α. I have to find the whole document. 8 200-what? 9 10 0. Page 72. 11 Α. Oh, 72. 12 It's table 32 entitled, fish Q. 13 consumption information relevant to Washington 14 and considered by ecology. 15 Α. Yes. 16 Do you see where it says Lake Ο. 17 Roosevelt, DOH? 18 Α. Yes. 19 And it refers to a Q. Okay. 20 footnote J? 21 Α. Yes. 2.2 Q. And it says, Washington, DOH, 1997. 23 Α. Okay. 24 0. All right. Now, it reads, "DOH, in 25 cooperation with the Spokane tribe, water body

- 1 RICHARD DeGRANDCHAMP, Ph.D.
- 2 and angler-specific creel survey, 42 meals per
- 3 year, assuming eight-ounce meal, this is
- 4 approximately 26 grams per day."
- 5 A. I think that should be 32. Is that
- 6 what you're getting at? I don't know.
- 7 Q. Well, it says 26 grams per day,
- 8 doesn't it?
- 9 A. It does.
- 10 Q. All right. Now, that's different
- 11 than 42 grams per day, correct?
- 12 A. That's for Lake Roosevelt, yes.
- Q. Okay. And it's derived from the
- 14 2007 -- I'm sorry -- the 1997 Washington DOH
- 15 study which we've, I think, talked about
- 16 before.
- 17 A. Yeah, that's 1997. I thought you
- 18 were asking me what the current fish
- 19 consumption rates were that underlie the
- 20 current fish advisories. I thought that was
- 21 the question.
- 22 O. Right. And what is it?
- 23 A. I don't know. They haven't produced
- 24 the document yet. And that's all I was trying
- 25 to say.

Page 259 1 RICHARD DeGRANDCHAMP, Ph.D. 2 All right. That's fine. Q. Okay. So -- but you've put in your report the 3 4 ingestion rate in table -- or Exhibit 18, the 5 assumptions was 42 grams per day. I want to go back to that. I understand that it's changed. 6 But 42 grams per day. That's the intake rate 7 that's used in the Department of Health and 8 ATSDR risk assessments, correct? 9 10 Α. Yes. 11 Now let's go back to where Okay. 12 that comes from. Now -- let's go to the Lake 13 Roosevelt survey. 14 Α. Wait. What document are you on now? 15 I am going to go to --Ο. 16 Are we in the same --Α. 17 Let's go to the ATSDR 2005 document. Ο. 18 MR. LAND: Do you know if you have 19 marked that as an exhibit? 20 MR. MILLER: I'm sure we have. 21 THE WITNESS: All right. I've got 2.2 it. 23 BY MR. MILLER: 24 0. Okay. 25 Α. Okay.

Page 260 1 RICHARD DeGRANDCHAMP, Ph.D. 2 The ATSDR 2005 document --Ο. Exhibit 12? 3 4 MR. CROMWELL: Yes. 5 BY MR. MILLER: Okay. Let's see where they say that 6 Ο. 42 grams per day comes from. 7 MR. LAND: 2005? 8 MR. MILLER: 9 Yeah. 10 BY MR. MILLER: So if I look at page 5 -- point me 11 Q. 12 to where this is. Because I'm --13 Α. I think you're looking at the 14 footnote. Assuming that a meal size is eight ounces, that's 42 grams per day. So that --15 16 Oh, I see. Go to the paragraph "populations of concern." 17 18 Α. Okay. It reads, "Therefore, recreational 19 Q. 20 consumption rates were used to estimate 21 exposure to contaminants in Long Lake fish. 22 Average and high-end consumption rates of 42 23 and 90 grams per day of fish were derived from 24 a survey of Lake Roosevelt anglers and were 25 used as the most appropriate estimate for Long

Page 261 RICHARD DeGRANDCHAMP, Ph.D. 1 2 Lake anglers." And then it refers to B. Do you see 3 that? 4 5 Α. Yes. 0. So 42 grams per day -- all 6 Okay. Assuming that a meal size is eight 7 ounces, 42 grams per day would be about one meal per week, about ten ounces. And 92 grams 9 10 per day is almost three meals per week, or 22 11 I got that right? ounces. 12 Α. Yes. 13 0. Okay. So if we go then to the Lake 14 Roosevelt angler survey -- that's the '97 survey, correct? 15 16 Are you referring to the document that I brought? 17 18 0. No. 19 Α. Well --20 Ο. What --21 Α. To -- the technical supporting 22 document is the one I brought. 23 0. Well, no. We've marked this as an 24 exhibit, the Lake Roosevelt survey of 25 anglers --

Page 262 RICHARD DeGRANDCHAMP, Ph.D. 1 2 MR. LAND: I think he is talking about this one. 3 4 MR. MILLER: Right. 5 BY MR. MILLER: 6 Ο. -- is the 1997 --You are talking about the 7 Α. Oh. supporting document for the one that I brought? 8 All right. 9 Yeah. 10 Ο. 11 So you want to go back to the Α. 12 original data? 13 Ο. Well, I want to go back to that 14 original study, because that's where this 42 grams per day comes from. 15 16 Yeah, and I just -- I just -- you haven't asked the question, but I already 17 stated I haven't read that document. 18 19 Well, take a look at it, Exhibit 19. Q. 20 Α. Okay. 21 Q. And looking at this particular document, the number 42 --22 23 Α. Wait. What page are you on? 24 Oh, I'm sorry. I'm in the abstract. Q. 25 Α. Okay. Got it.

Page 263 1 RICHARD DeGRANDCHAMP, Ph.D. 2 0. All right. It says, "Fish consumption survey was conducted at Lake 3 Roosevelt during 1994 and 1995 to determine the 4 5 consumption patterns of anglers who repeatedly 6 fished the lake." It goes on, "These data were 7 gathered in an effort to determine fish 8 consumption patterns for the population of 9 concern, those who -- those who consumed the 10 11 greatest amount of fish, in order to assess the 12 public health impacts associated with ingestion 13 of chemically contaminated fish. Inherently, 14 all [sic] populations consuming fish less frequently (or in lesser quantity) will also be 15 16 protected. Surveyed individuals were primarily 17 older adult Caucasian males that are part of two-adult households in which both individuals 18 19 consume fish. The results indicate that 20 surveyed anglers consume an average of 42 meals 21 per year, with greater than 90 percent 22 consuming 103.2 meals (or two meals per week), 23 or less per year." This indicates to me that the 24 Okay. 25 42 grams per day isn't accurate, but that they

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- 2 transposed 42 meals per year into grams per
- 3 day.

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- 4 A. I have no -- I have no basis to
- 5 answer that. As I told you, I haven't read
- 6 this document. I haven't plotted the data.
- 7 But what is more important to me is if you look
- 8 at the rest of that sentence, with greater than
- 9 the 90 percent consuming 103 meals -- that's
- 10 two meals per week. Well, with the current
- 11 fish advisories, we are down to, in some of
- 12 these places, one fish meal per month. So
- 13 whatever the fish ingestion rate is -- well --
- 14 Q. Okay. But --
- 15 A. I -- I am not -- again, I have to
- 16 restate this -- and I have said it several
- 17 times -- I am not concerned about the average.
- 18 No public health professional would be
- 19 concerned about the average. So I can't answer
- 20 your question where the 42 -- I would have to
- 21 spend a considerable amount of time, and you've
- 22 only given a portion of the document, I think.
- 23 O. I don't think so.
- 24 A. But it does show here that people --
- 25 I mean, these are really rough -- look at how

- 1 RICHARD DEGRANDCHAMP, Ph.D.
- 2 they provide this information. How many meals
- 3 per week? How big was the -- you know, months
- 4 per year did you eat? I mean, these are all
- 5 self-administered, and people are not weighing
- 6 their fish before they eat it. So I don't know
- 7 the answer to your question.
- 8 MR. MILLER: Okay. So I will move
- 9 to strike everything after "I have no basis
- to answer that." Because anything you
- answered after "I have no basis to answer"
- is an answer to a question I haven't asked.
- So I am going to move to strike that.
- 14 THE WITNESS: Okay.
- 15 BY MR. MILLER:
- 16 Q. As you sit here today, can you tell
- me where 42 grams per day or 90 grams per day
- 18 for the upper consumers comes from?
- 19 A. No.
- 20 Q. Now, in your report, you said that
- 21 ATSDR and the Washington Department of Health
- 22 used the best available measurements of tissue
- 23 and exposure information. And if you can't
- 24 tell me where this ingestion rate comes from,
- 25 how can you tell me that that's the best